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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|   | Application Number   | 10/821,660               |
|---|----------------------|--------------------------|
| TRANSMITTAL   | Filing Date          | April 9, 2004            |
| OCT 1 6 2006 FORM   | First Named Inventor | Alan L. Rockwood, et al. |
| (to be used for all correspondence after initial filing)        | Group Art Unit       | 2881                     |
| THAT THE THE THE THE THE THE THE THE THE TH                     | Examiner Name        | Nguyen, Kiet Tuan        |
| Total Number of Pages in This Submission (including this sheet) | Attorney Docket No.  | 3001.BYU.NP              |

| ENCLOSURES (check all that apply)  |                                    |  |  |  |  |
|--|------------------------------------|--|--|--|--|
| □ Amendment / Response □ After Final □ Affidavits/declaration(s) □ Appeal Communication: □ Appeal Notice □ Appeal Brief □ Reply Brief □ Assignment with Cover Sheet  | □ Extension of Time Request        | Maintenance Fee Transmittal    year     Missing Parts Response     Notification of Change of Attorney     Address & Docket Number     Return Postcard     Revocation & Power of Attorney     Status Inquiry     Other: |  |  |  |
| □ Certified Copy of Priority     □ Document(s)     □ Check in the amount of \$      ☑ Credit card authorization in the amount of \$_180     □ Declaration & Power of Attorney     □ Drawings sheets     □ Formal □ Informal                          | Remarks                            |  |  |  |  |
| SIGN   | ATURE OF APPLICANT, ATTORNEY OR AC | GENT   |  |  |  |
| Attorney for Applicant  David W. O'Bryant, Registration No. 39,793  MORRISS O'BRYANT COMPAGNI, P.C.  136 South Main Street, Suite 700  Salt Lake City, Utah 84101  (801) 478-0071 telephone; (801) 478-0076 facsimile                                |                                    |  |  |  |  |
| Signature San W.   | ) frant                            | Date /0/11/2006  |  |  |  |
| CERTIFICATE OF MAILING UNDER 37 CFR § 1.8  |                                    |  |  |  |  |
| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, on the date indicated below, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. |                                    |  |  |  |  |
| Typed or Printed Name David W. O'Bryant  |                                    |  |  |  |  |
| Signature Aux 2 C  | Brot                               | Date 10/11/2005  |  |  |  |



## E UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Alan L. Rockwood, et al.

**SERIAL NO.:** 

10/821,660

FILING DATE:

April 9, 2004

TITLE:

**CROSS-FLOW ION MOBILITY** 

**ANALYZER** 

**ART UNIT:** 

2881

**EXAMINER:** 

Nguyen, Kiet Tuan

**DOCKET NO.:** 

3001.BYU.NP

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, under 37 C.F.R. § 1.8 on the date indicated below and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

David W. O'Bryant

Date of Deposit

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)(2)

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.98(a)(1), enclosed is Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to 37 C.F.R. § 1.97(c)(2), has enclosed a credit card authorization form in the amount of \$180 for entry of this Information Disclosure Statement, and requests that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or

patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no reference which is more relevant to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with the waiver of 37 C.F.R. § 1.98(a)(2)(i) published in the Official Gazette on August 5, 2003 for U.S. patent applications filed after June 30, 2003, copies of each cited U.S. patent and each U.S. patent application publication are not enclosed. Applicant has submitted copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. § 1.98 (a)(2). Any listed reference that is not in the English language is accompanied by a concise explanation in English of its relevance as required under 37 C.F.R. § 1.98(a)(3)(i).

Please charge any additional fees or credit any overpayment to Deposit Account No. 50-0881.

DATED this // day of October,2006.

Respectfully submitted,

David W! O'Bryant

Attorney for Applicant Registration No. 39,793

MORRISS O'BRYANT COMPAGNI, P.C.

136 South Main Street, Suite 700

Salt Lake City, Utah 84101

(801) 478-0071 telephone

(801) 478-0076 facsimile

| Substitute for form PTO-1449 |                           |  | Complete if Known    |                         |  |
|------------------------------|---------------------------|--|----------------------|-------------------------|--|
| INFO                         | rmation dis               | CLOSURE                                | Application Number   | 10/821,660              |  |
| STAT                         | <b>TEMENT BY AF</b>       | PPLICANT                               | Filing Date          | April 9, 2004           |  |
|                              |                           | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | First Named Inventor | Alan L. Rockwood et al. |  |
|                              | (use as many sheets as ne | cessary) OCT 1 6 2006                  | Group Art Unit       | 2881                    |  |
|                              |                           | <u>12</u> #/                           | Examiner Name        | Nguyen, Kiet Tuan       |  |
| Sheet                        | 1                         | of 2                                   | Attorney Docket      | 3001.BYU.NP             |  |
|                              | · <del>·····</del>        | MADEN                                  |                      |                         |  |

|                       | U.S. PATENT DOCUMENTS |   |                                |  |   |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No.1          | Document Number  Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant Figures |
|                       |                       | US-6,905,029 B2   | 06-14-2005                     | Flagan   | Appear  |
|                       |                       | US-   |                                |  |   |
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|                       | FOREIGN PATENT DOCUMENTS |  |                                |  |  |              |
|-----------------------|--------------------------|--|--------------------------------|--|--|--------------|
| Examiner<br>Initials* | Cite<br>No.¹             | Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited<br>Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear | T°           |
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Examiner Date
Signature Considered

\*EXAMINER: Initial if reference considered, whether or not citation in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (VIPO Standard ST.3). <sup>4</sup> Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

|   | Complete if Known                  |  |  |
|---|------------------------------------|--|--|
| INFORMATION DISCLOSURE Application            | Number 10/821,660                  |  |  |
| STATEMENT BY APPLICANT Filing Date            | April 9, 2004                      |  |  |
| ン <sup>トレミ</sup> 切っ First Name                | d Inventor Alan L. Rockwood et al. |  |  |
| (use as many sheets as necessary) Group Art L | Unit 2881                          |  |  |
| OCT 1 & 2006 Examiner N                       | Name Nguyen, Kiet Tuan             |  |  |
| Sheet 2 of 3 2 6 Attorney Do                  | ocket 3001.BYU.NP                  |  |  |

|   | C. G. EDVELSON,          |  |  |  |
|---|--------------------------|--|--|--|
|   |                          | OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS  |  |  |
| Examiner<br>Initials*                   | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published | T²   |  |
|   |                          | "Orthogonal Extraction Ion Mobility Spectrometry", Victor V. Laiko. 2006. Journal of American Society of Mass<br>Spectrometry, V. 17, 500-507  |  |  |
| `                                       |                          | "The Limits of Air Ion Mobility Resolution", H. Tammet. Institute of Environmental Physics, University of Tartu, Estonia.  |  |  |
| •••••                                   | <b>†</b>                 | "Method of Inclined Velocities in the Air Ion Mobility Analysis", H. Tammet. Institute of Environmental Physics,<br>University of Tartu, Estonia.  |  |  |
| ••••••                                  |                          | "Opposed Migration Aerosol Classifier (OMAC)", Richard C. Flagan. Aerosol Science and Technology, V. 38, 890-899. 2004.  |  |  |
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| Examiner<br>Signature                   |                          | Date<br>Considered   |  |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation (optional). Applicant is to place a check mark here if English language translation is attached.